

Claims:

1. (Currently Amended) A method of managing a relational database on a pervasive computing device comprising:

- a. receiving queries on a pervasive computing device in SQL, the queries comprising a plurality of query terms;
- b. interpreting the queries on a pervasive computing device by associating at least one declarative language function with the query terms by converting the SQL to an intermediate tree representation corresponding to the declarative language function;
- c. converting the queries represented by at least one declarative language function to a plurality of JAVA statements on a pervasive computing device; and
- d. executing the JAVA statements.

2. (Cancelled)

3. (Currently Amended) The method of claim 1, wherein the declarative language function is identified by a ~~pointer~~ reference to further code such that the declarative language function is treated as data within a plurality of JAVA statements.

4. (Previously Presented) The method of claim 1 wherein the declarative language function is implemented in a declarative language that is chosen from the group consisting of ML, LISP, and HASKELL.

5--33. (Cancelled)

34. (New) A database management system adapted to process queries in a pervasive computing environment, said pervasive computing environment comprising at least one client adapted to interact with a server over connection services, said at least one client controlled and configured to

- a. receive the queries on a pervasive computing device in SQL, the queries comprising a plurality of query terms;
- b. interpret the queries on a pervasive computing device by associating at least one declarative language function with the query terms;
- c. convert the queries represented by the at least one declarative language function to a plurality of Java language statements on a pervasive computing device; and
- d. execute the Java language statements.

35. (New) The system of claim 34, wherein the declarative language function is identified by a reference to further code such that the declarative language function is treated as data within the plurality of Java language statements.

36. (New) The system of claim 34 wherein the declarative language function is implemented in a declarative language that is chosen from the group consisting of ML, LISP, and HASKELL.

37. (New) A program product comprising computer readable program code on one or more media, said program code being capable of controlling and configuring a computer system having one or more computers to perform the process of

- a. receiving queries on a pervasive computing device in SQL, the queries comprising a plurality of query terms;
- b. interpreting the queries on a pervasive computing device by associating at least one declarative language function with the query terms;
- c. converting the queries represented by the at least one declarative language function to a plurality of Java language statements on a pervasive computing device; and
- d. executing the Java language statements.

38. (New) The program product of claim 37, wherein the declarative language function is identified by a pointer to further code such that the declarative language function is treated as data within the plurality of Java language statements.